

Governance for Resource Efficiency

The importance of measurement

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The importance of measurement

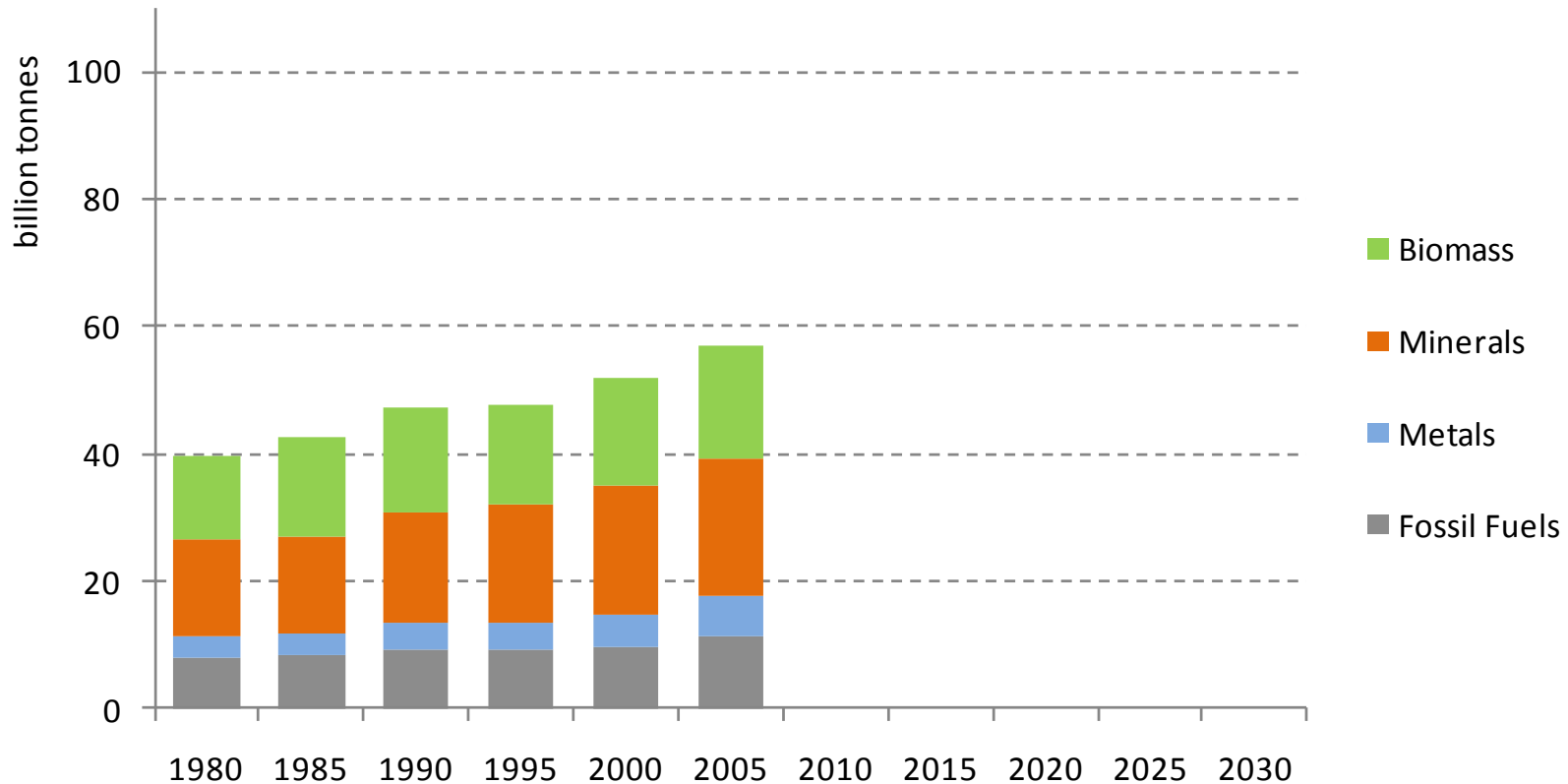
- **Europe does not currently measure its resource use, nor does it check what impacts new policies may have on our resource use.**
 - How can we know what we are doing if we don't even try to measure it?
- **FoEE has been working with Sustainable Europe Research Institute (SERI) to design an effective measurement system.**
 - Aiming to put together something that is currently supported by a wide range of people and groups
- **We started with discussions on why we wanted to measure resource use & what the criteria were**
 - Rather than starting as advocates of any specific methodology

Indicator Set: Overview

Category		Product level		National level	
Materials	abiotic	Material Rucksack of products	abiotic	Material flow-based indicators of countries <small>(including materials embodied in imports and exports)</small>	abiotic
	biotic		biotic		biotic
Water		Water Rucksack / Water Footprint of products		Water Rucksack / Water Footprint of countries <small>(including water embodied in imports and exports)</small>	
Land area		Actual land use of products		Actual land use of countries <small>(including land embodied in imports and exports)</small>	
GHG emissions		Carbon Footprint of products		Carbon Footprint of countries <small>(including GHG emissions embodied in imports and exports)</small>	

Material indicators: macro

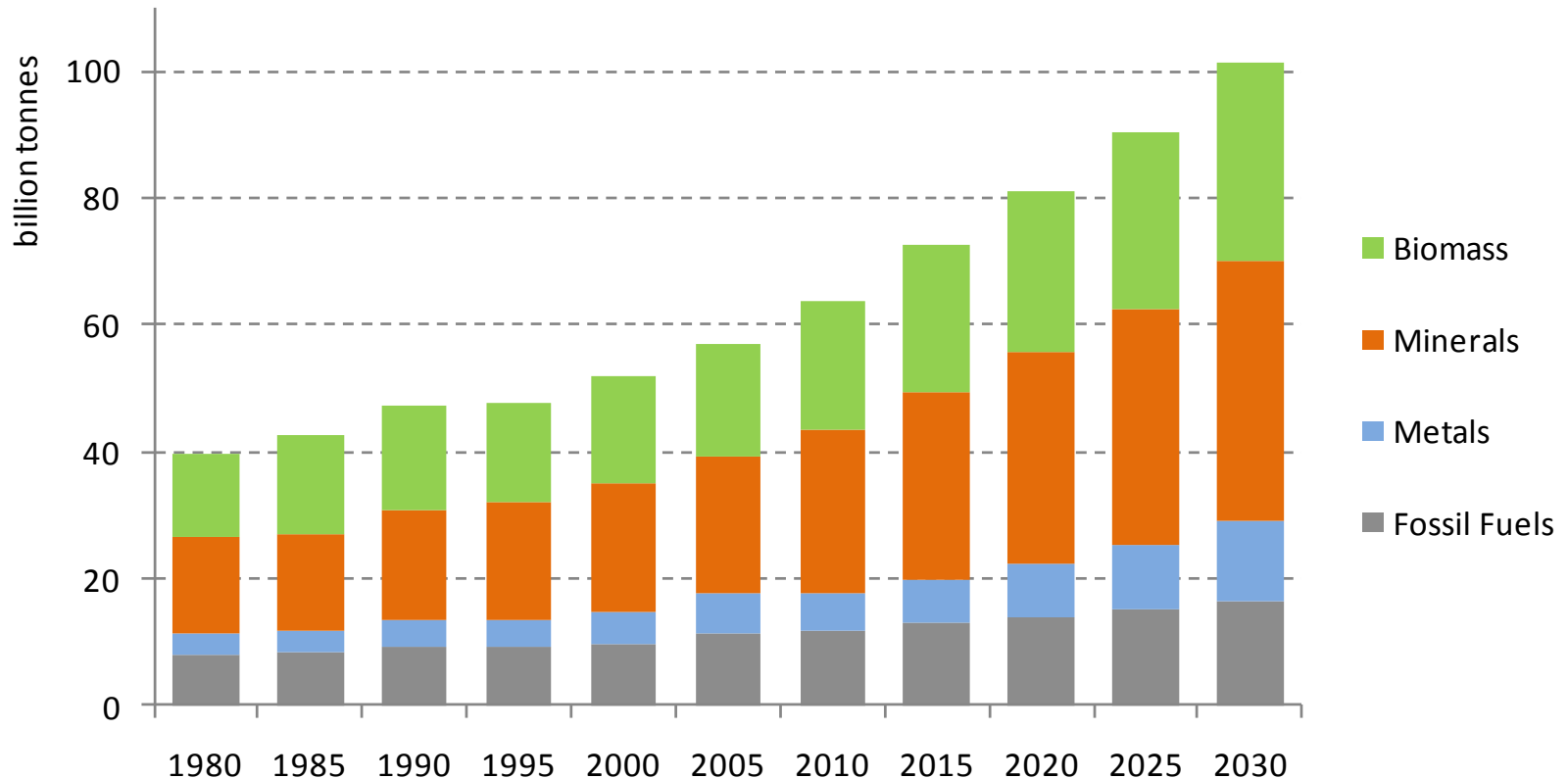
Global used material extraction, 1980 - 2005



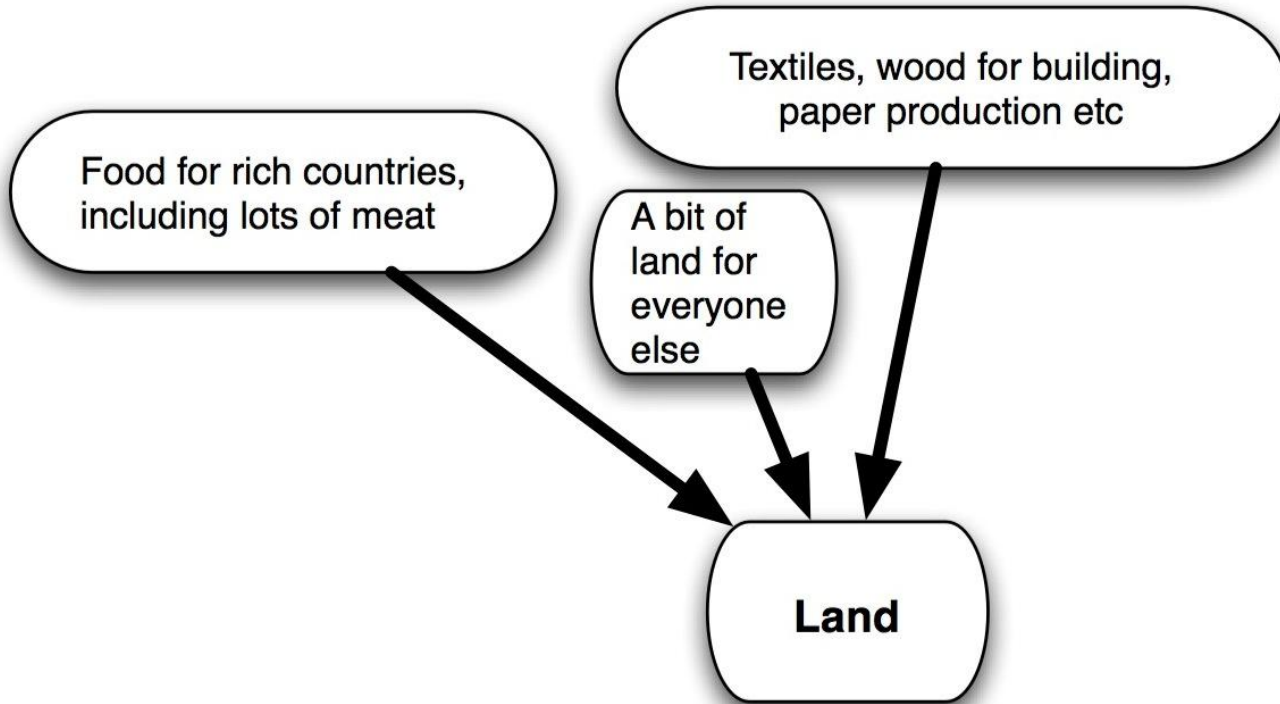
Source: www.materialflows.net

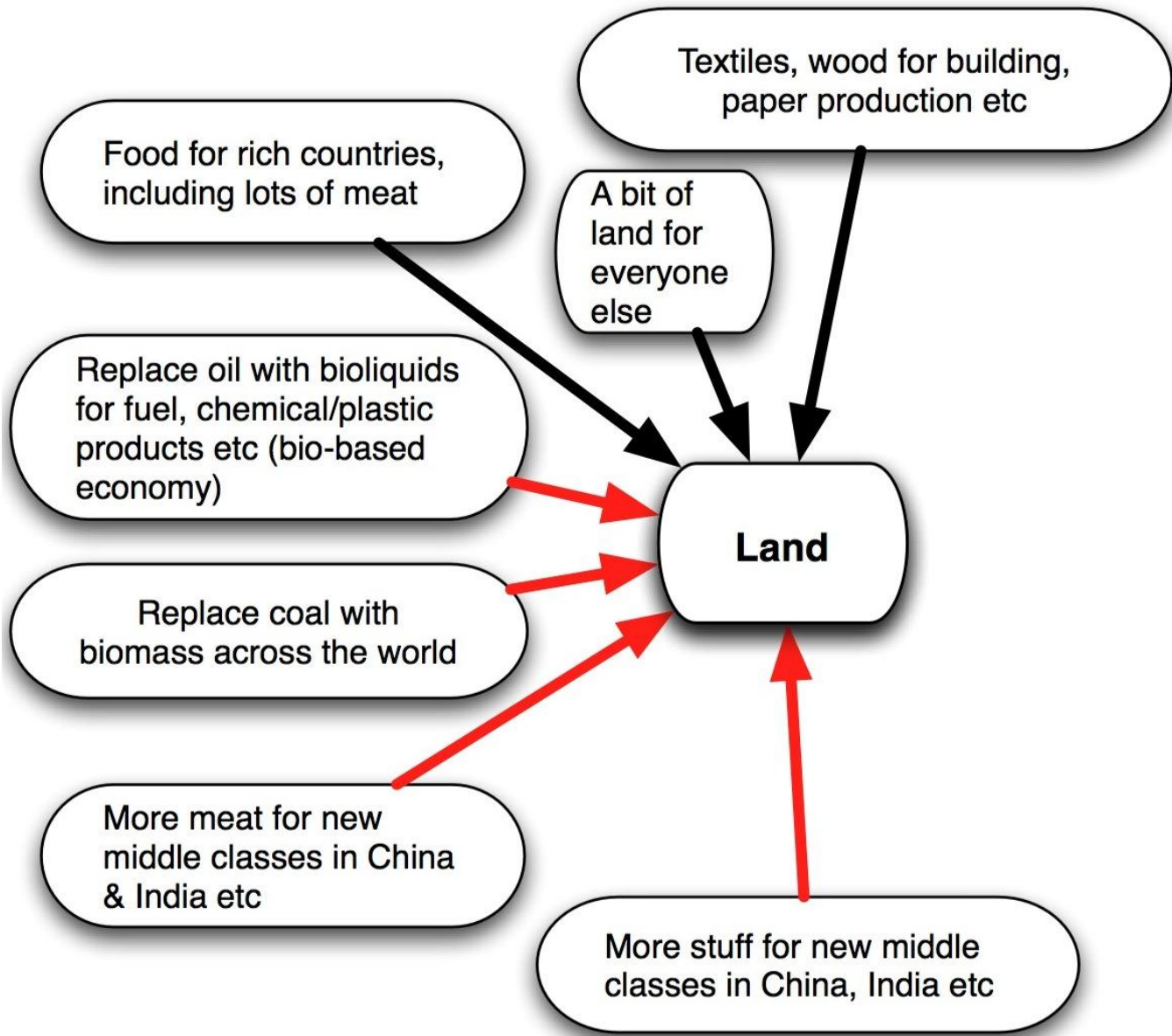
Material indicators: macro

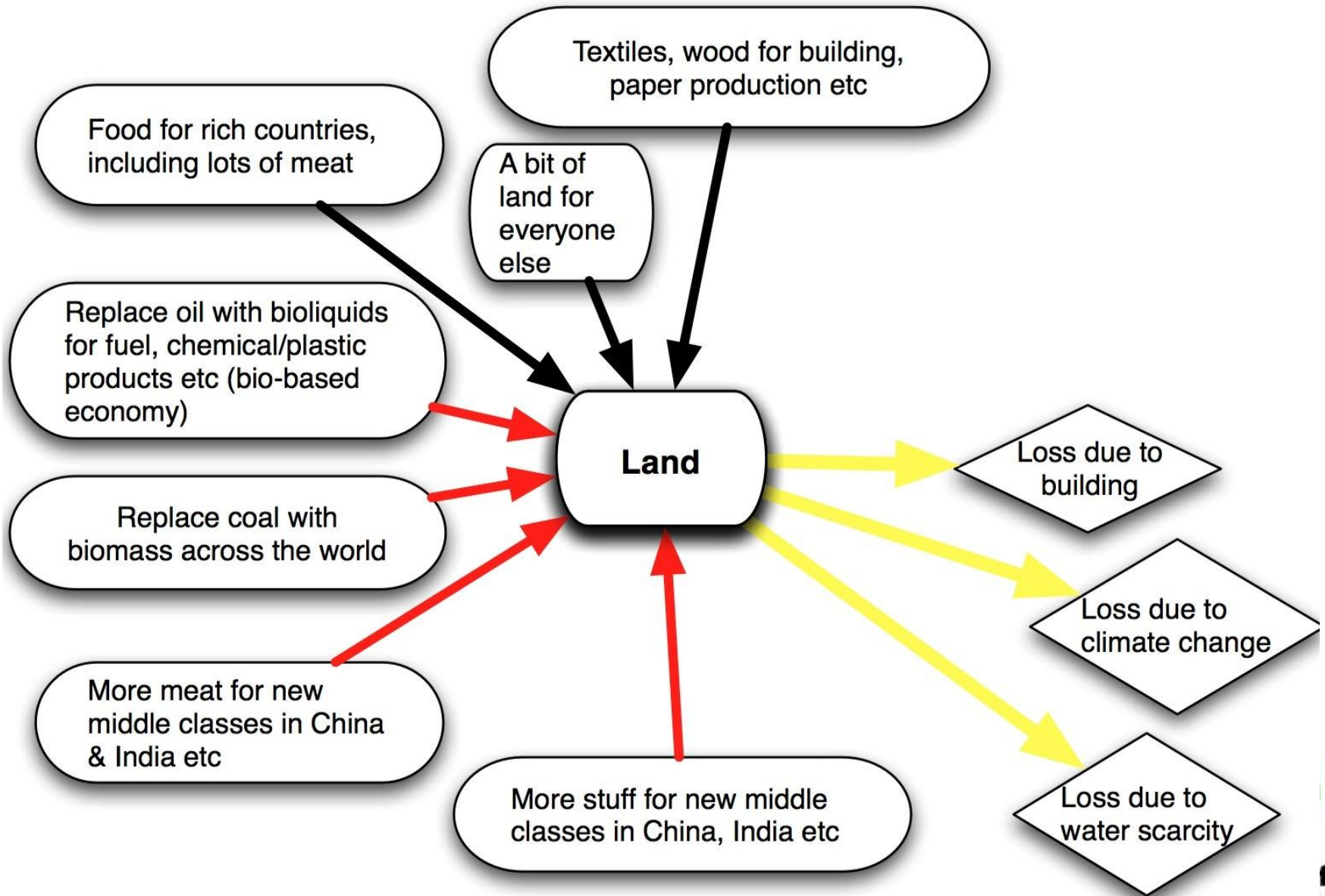
Global used material extraction, 1980 - 2030

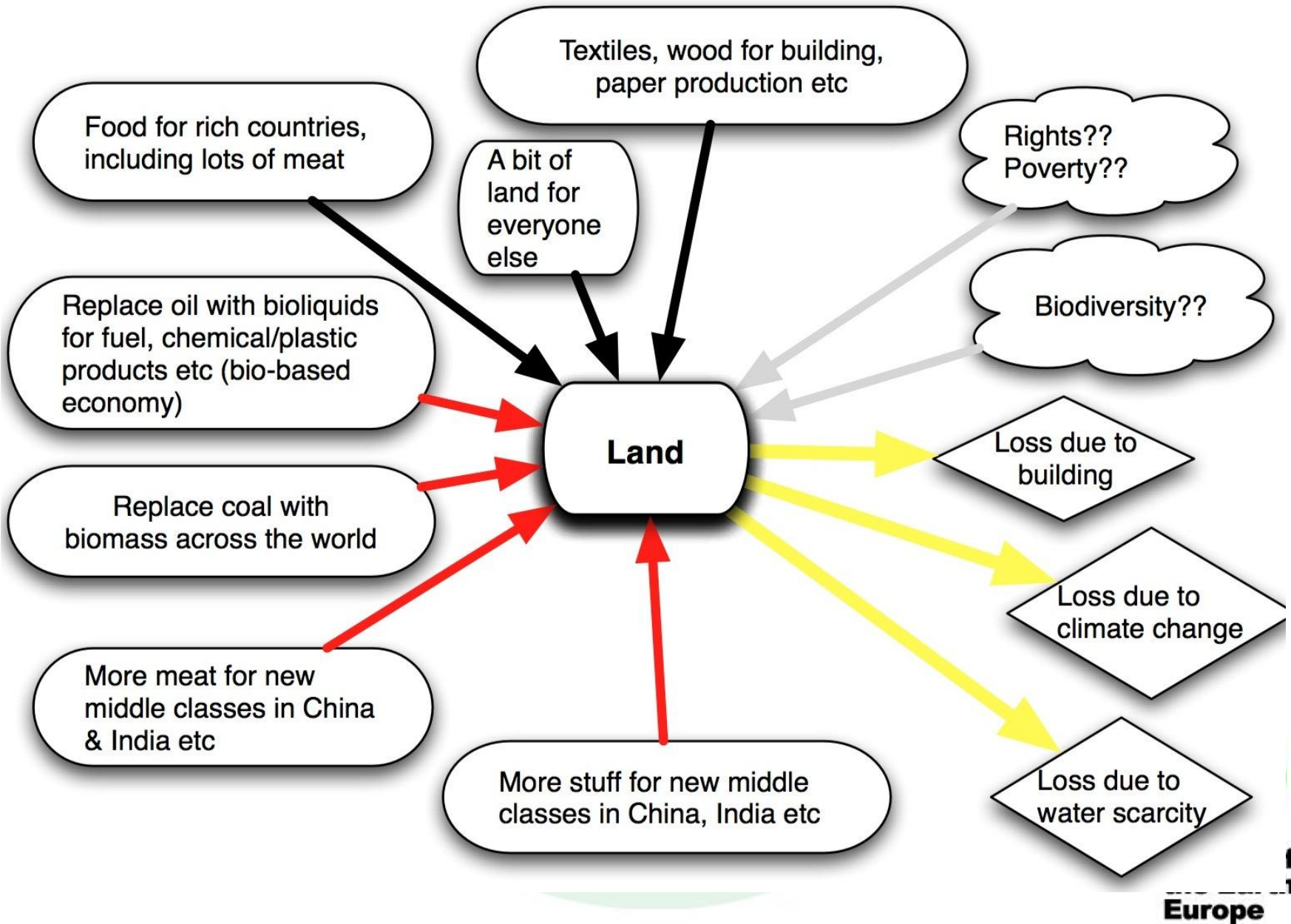


Source: www.materialflows.net and Lutz/Giljum, 2009









Water indicators: micro



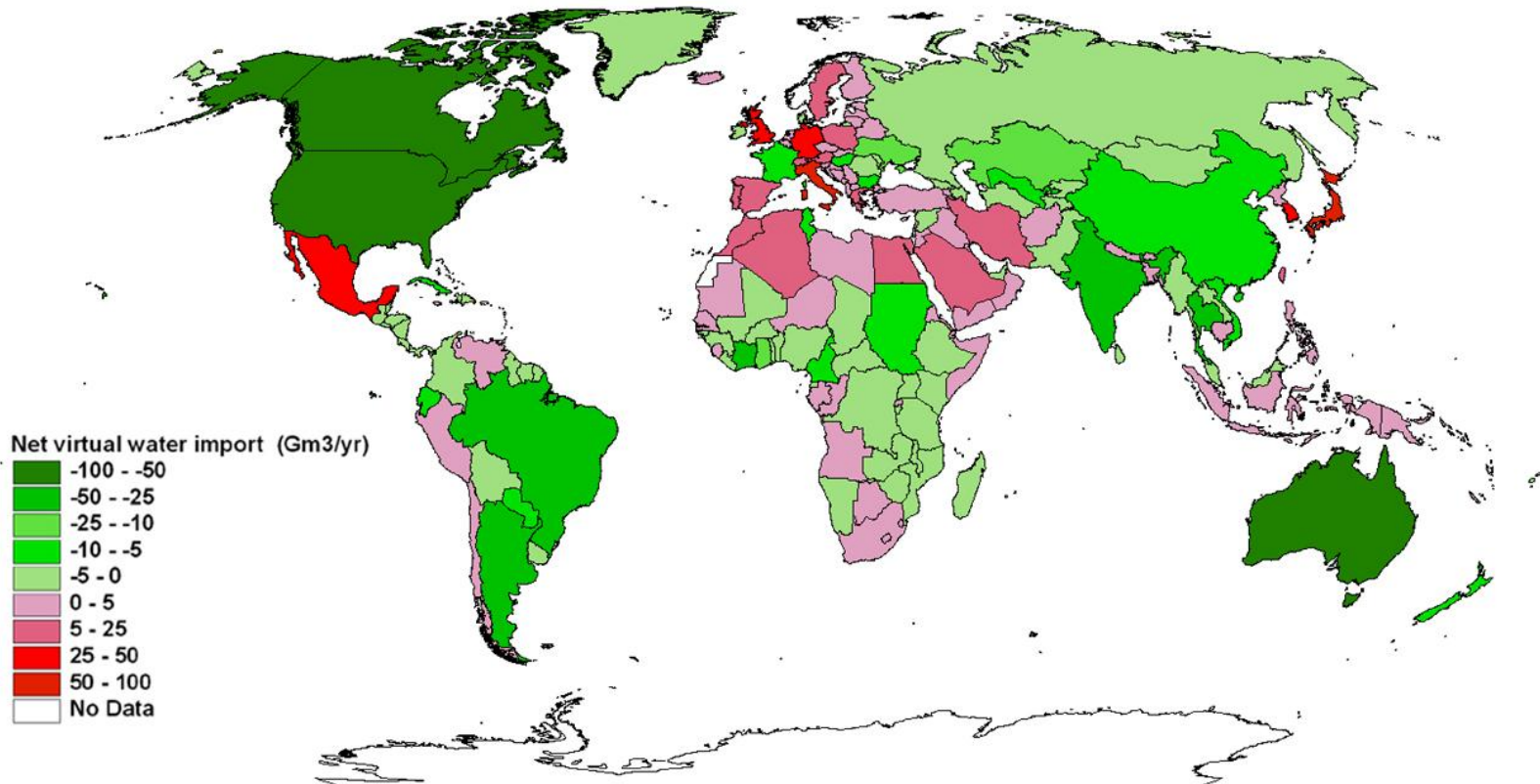
Source: Water Footprint Network, 2009



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Water indicators: macro

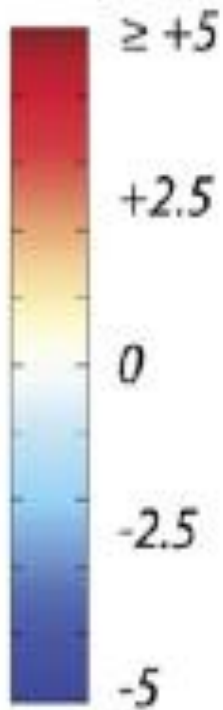
Imports and exports of virtual water, 2000



Source: Water Footprint Network, 2009

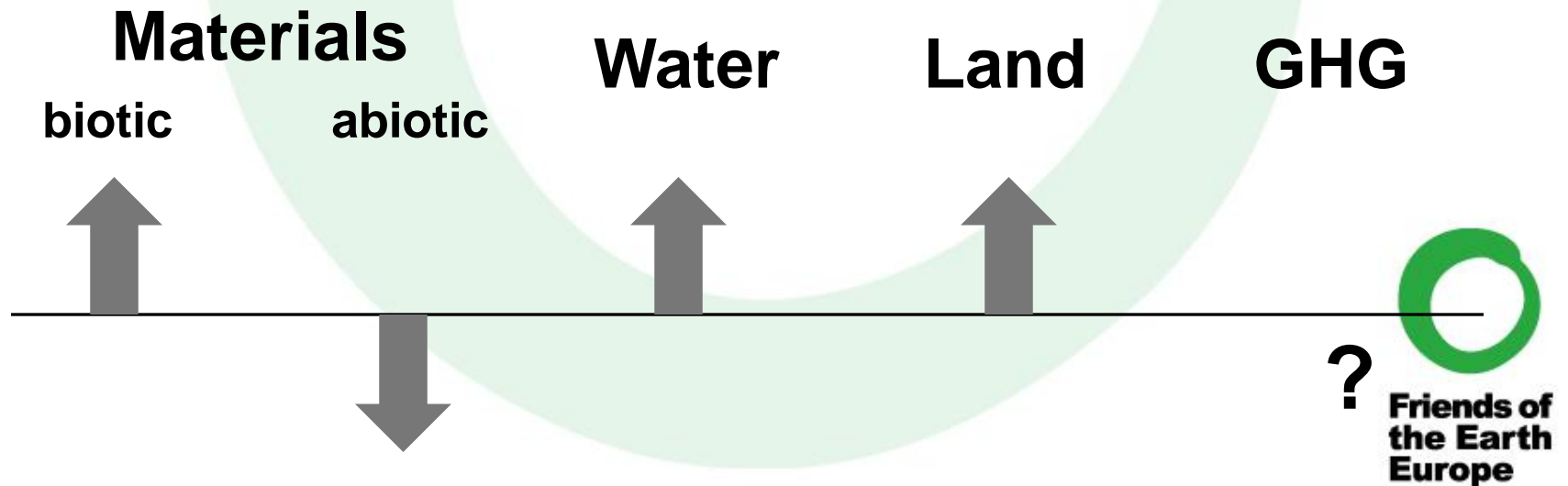
European changes in CO₂ emissions when imports added

tCO₂/person/y



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Example: oil → biofuels



Example: coal → wind



Materials

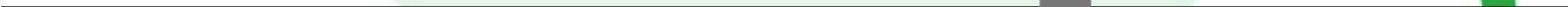
biotic

abiotic

Water

Land

GHG



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What we want from the EU

- **We want the EU to take the lead on resource use.**
- **This would include:**
 - Standardising and agreeing the four indicators
 - Publishing EU – and national – resource use figures every year
 - Incorporating resource use into the impact assessment of policy options
 - Creating new policies to reduce our resource use
 - Providing guidance to businesses and other organisations to help them become more resource efficient.



Thank you!

www.foeeurope.org/resources

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